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Proposed Amendments

Amendments to the Specification

At page 1, please amend lines 2-3 as follows:

This application is a divisional of U.S. application Serial No. 09/764,609, filed on January 17, 2001, and now abandoned, which claims priority from provisional application Serial No. 60/178,377, filed on January 27, 2000.

At page 28, please amend lines line 10-19 as follows:

In another embodiment, the sheet 3302 is a smart instrument and the markers 3304 are light emitting diodes. Preferably, the position of the diodes is determined on the field. The diodes are connected to a breakout box and can be positioned using different means of attachment to any tissue of the patient, e.g., bone or skin. The geometry of the sheet 3302 can then be initialized to two modes: tracking of rigid tissues after determining the spatial relationships of the diodes with the sensor array. The second mode is to track soft tissue displacement or deformations over time. Using the first mode (tracking), the positional information of the sheet's diodes can be used to register the tracked feature of the patient to an image data set, e.g., a CT scan, using, for example, surface matching techniques. The computer system is adapted to determine the contour of the smart instrument and perform a surface matching operation with a known contour.

At page 53, please amend lines 4-7 (the abstract) as follows:

A surgery system comprising at least one smart instrument, a computer system, and a sensor system adapted to wirelessly sense the position of the at least one smart instrument and to transmit position information to the computer system, wherein the sensor system includes a sensor array and the sensor array includes three linear CCD cameras and at least one infrared transceiver.

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

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